

Date: Thu, 18 Mar 93 20:10:28 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #344
To: Info-Hams

Info-Hams Digest Thu, 18 Mar 93 Volume 93 : Issue 344

Today's Topics:

 "Real Future of Ham Radio" (Was: FL hams...tower, stop Xmitting)
 Freebies from ARRL HQ
 GMRS Frequencies - whats the scoop?
 Ham only dual-bander HT?
 HELP--Where do I get a 950-1450Mhz Radio? (2 msgs)
 Help on mod to GE Custom Executive
 Kenwood mic mods
 Motorola HTs
 N.A. 5.000MHz Time Signal - not WWV - what is it?
 OMNI VI - 80C32 cpu
 R-648/ARR-41 info needed

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 18 Mar 1993 22:19:37 GMT
From: elroy.jpl.nasa.gov!swrinde!zaphod.mps.ohio-state.edu!howland.reston.ans.net!
gatech!wa4mei!ke4zv!gary@ames.arpa
Subject: "Real Future of Ham Radio" (Was: FL hams...tower, stop Xmitting)
To: info-hams@ucsd.edu

In article <Vkgk1B3w164w@pilloock.moron.vware.mn.org>
stevej@pilloock.moron.vware.mn.org (Steven Jarosh, KA0VYB) writes:

>
>As technology has progressed faster and faster, we seem to be coming under a
>greater pressure from commerical entities that want our spectrum for new
>technologies (as shown by the infamous 220mhz grab and failed ACSSB use.)

>and by the "annoyance factor" as shown above. It appears that although our
>future is not totally bleak, we may be in for some rough times ahead. While
>I am not a doom and gloom proponent, I do believe in "Being Prepared".

>

> ***The following is for example only, please keep discussion to topic***
>A semi-related example is that those of us who like to hunt are finding it
>increasingly difficult to find public hunting lands for a variety of reasons.
>We are now increasingly forced to buy land to secure our sport.
> ***The above was for example only, please keep discussion to topic***

This is germane. Aside from the government's continuing attacks on our
second amendment rights, there was an editorial in Car Craft this month
decrying proposed federal regulations that would require all cars over
14 years old to be removed from the roads and crushed in the name of
clean air. Off roaders, 4 wheel, motorcycle, and bicycle, are all under
attack and are being restricted from more and more public land. There
is a proposal afoot to license computer users. *Any* exercise of creative
technology for liesure pursuits is under attack by Big Brother or the
Safety Nazis. Whatever isn't mandatory is becoming forbidden.

>If the government releases 200mhz of space, this is still a finite amount of
>space and where will they look to next for more frequencies for commerical
>entities, especially if the new technologies appear to obsolete the need
>for our emergency communications in the government's eyes.

>

>The question then is:

>

> Should we as collective individuals and/or the ARRL bid for some of
> these frequencies that will be auctioned off, especially if any are
> auctioned off in blocks? (ie. continuous 1mhz block)

>

>If the abolition of ham radio as a public entity should come about then the
>continuation of ham radio as a private entity will already be installed.

The expected revenue from these spectrum sales exceeds \$1 billion per
megahertz. I doubt radio amateurs could afford more than a channel or
two. We'll just have to use the "useless" spectrum the commercial boys
don't want, just like we did in the 20s.

>One last thought, would we bill the government for emergency use of our
>private frequencies. :-)

You know the government doesn't work that way. Those with all the guns,
and that's what the government wants to become, take whatever they want
whenever they want it. Sheep don't count.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 18 Mar 93 15:17:59 EDT
From: mcsun!sunic!psinntp!psinntp!arrl.org@uunet.uu.net
Subject: Freebies from ARRL HQ
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, regmad@gsusgi2.gsu.edu (Michael de Kraker) writes:

>
> Yea sure I have tried twice and received nothing ?
> Joined ARES (picture id and all) informed (as promised) of nothing !
> Whats the point.
>

Here we have a case of apples and a case of oranges. Let's get to the core of the apples first:

What you needed to do (and didn't) was to successfully get a message to me, asking for either of the two free services that I 'advertised'.
I never received either attempt from you.

Now the oranges.

You haven't stated what service or action you expected to receive from the local ARES organization that you joined. But whatever that lacking action may be, it needs to be dealt with. And the person to DO that is your ARRL Section Emergency Coordinator:

Dot Fennell KA4HHE
24 Ridge Rd.
Savannah, GA 31405
912 234 5917

In both cases, the proper action for YOU to take is to ask the correct person(s) for what you need.

Since you've asked, THAT's what the point is, Mike.

			Deputy Manager, Field Services, ARRL.
		___	The ARRL Amateur Radio Emergency Service, the ARRL
	uck		urder
			National Traffic System, The Amateur Auxiliary to

----- | | the FCC's Field Operations Bureau, the ARRL
KY1T Field Organization and the ARRL Monitoring System.

lhurder@arrl.org Prodigy - MGTS39A, BIX - ARRL,
MCI Mail - RPALM, MCI Mail - "ARRL", America On Line - "ARRL HQ"
Compuserve - 70007,3373 (ARRL HQ) -- Genie ARRL.HQ

Date: Fri, 19 Mar 1993 02:29:21 GMT
From: sdd.hp.com!zaphod.mps.ohio-state.edu!howland.reston.ans.net!agate!
iat.holonet.net!bwilkins@network.UCSD.EDU
Subject: GMRS Frequencies - whats the scoop?
To: info-hams@ucsd.edu

isenhour@lambic.fnal.GOV (John L. Isenhour) writes:
:
: . Are there any frequencies besides the ones above?

462.550 462.575 462.600 462.625 462.650 462.675 462.700 462.725
are the outputs of repeaters with the inputs 5MHz higher. 50 watts.

the channels 12.5khz between are used simplex low power.

:
: . What does GMRS stand for?

general mobile radio service

:
: . Would this be worth investigating while I study for my ticket?
:

Get your ticket while investigating the gmrs service. I think you would
like the amateur radio service.

--

Bob Wilkins n6fri voice 440.250+ 100pl san francisco bay area
bwilkins@holonet.net packet n6fri @ w6pw.#nocal.ca.usa.na

Date: Thu, 18 Mar 1993 22:04:44 GMT
From: elroy.jpl.nasa.gov!swrinde!zaphod.mps.ohio-state.edu!howland.reston.ans.net!
gatech!wa4mei!ke4zv!gary@ames.arpa
Subject: Ham only dual-bander HT?
To: info-hams@ucsd.edu

In article <1993Mar16.204916.11185@sj.ate.slb.com> jones@sj.ate.slb.com (Clark

Jones) writes:

>Gary Coffman (gary@ke4zv.uucp) wrote:

[re: commercial grade radios]

>:All they lack to

>: be ideal ham radios is to be tuneable across the band.

>

>Uh, which do you want: super narrow front end, or tuneable? You can't have

>both in the size and weight of a reasonable HT.

Yes you can. I want filters in the front end narrow enough to pass only the ham band, but inside the band I want the radio to be tunable across the *ham* channels. The amateur rigs try to offer extreme wide band receive capabilities and they don't have bandpass filters in the front end capable of stopping the strong commercial signals from out of band. The commercial radios do have these bandpass filters.

>:If you only

>: need a few frequencies, they're ideal as is. My ideal radio would

>: be as simple to use as an IC2AT with the electrical and mechanical

>: ruggedness of a GE Mastr series HT. I don't want scanning or memories

[delete]

>Also, I travel frequently in my job (usually by commercial airlines) to the

>mostly the same set of cities. Trying to remember sets of frequencies like

>that becomes a bit difficult. Easier to remember that memories 0 to 10 are

>home, 11 to 15 are San Jose, 16 to 20 are Albuquerque. (Especially when

>the same frequency repeaters need different CTCSS tones in different cities.)

The IC2AT had 800 memories, and they were easy to associate with a repeater. When I wanted to use the 145.47 machine, I knew instantly that it was in memory 547, simple, elegant. I didn't have to remember that it was in memory 12 of bank B. That's silly. I don't find any uses for scanning. In fact I don't even know how to work the scanning feature of my newest radio, I never bothered to learn. I know the repeaters where my friends hang out in all the cities to which I normally travel. When I'm in a new city, I consult the repeater directory and listen for a while to see which repeater sounds interesting, 5 seconds doesn't satisfy that, and then I park there.

>: I just want a radio that works

>: under extreme conditions. A radio should work in high RF fields,

>

>I don't know about you, but I don't often hike around the "tower forest"

>of TV transmitters, nor do I make it a habit of camping directly in front

>of air traffic control radar antennas. ;-) I'm willing to put up with

>a little interference when I'm within 100 feet of a 50KW broadcast station,

>as for one thing, it lets me know that maybe I should keep on going! ;-) ;-)

Since I'm trustee of a repeater on top of a TV tower, and a helper for

a packet network that lives on sites shared with other high power transmitters, I'm in the situation a lot. Indeed, just driving through downtown Atlanta's intermod alley is sufficient to tax most rigs. If I spent most of my time out in rural areas, I wouldn't be concerned about intermod either. Since 90% of amateurs live and work in high RF urban areas, good filtering is important.

>I'd love to have a ham-band-only mobile rig, and a mobile scanner, and a
>separate NOAA monitor, etc., in my truck, if money permitted. But when I
>have to carry equipment when I'm on foot (including through airports), I
>want as little wieght as possible consistant with being reasonably rugged,
>and still give me the frequencies that I need/want.

>

>Since the government wants to leave me so little of the money I'm earning,
>I basically had to settle for a single radio for both HT and mobile work.
>I've found that with the addition of the CTCSS decoder board, the DJ-F1T
>gives me acceptable perfomance under the vast majority of situations.

>

>Having never met you in person, Gary, may I ask if you are similar in build
>to Arnold Schwarzeneger (sp?)? If so, then I can see how you might not mind
>carrying several radios around. I, on the other hand, am lucky to be able
>to carry around a single radio, considering my physical handicap.

Well, I am a rather large old guy, but the real difference is that I don't feel the need to carry a scanner to snoop on the utility services. A ham rig, a cellphone, and a Glock 17 are sufficient for my needs most of the time. On the rare occasions when I need to track down out of band signals, I use the IFR spectrum analyzer. That's what it's designed for.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: Thu, 18 Mar 1993 21:11:33 GMT
From: ftpbox!mothost!lmpsbbs!tt734!edg@uunet.uu.net
Subject: HELP--Where do I get a 950-1450Mhz Radio?
To: info-hams@ucsd.edu

Headline says it all. I want to know where to get a used radio that I can tune to 950-1450Mhz. The Icom 7000 is too expensive.

I just want to be able to use a small Satellite antenna which I

have and listen to SCPC (Single Channel Per Carrier) Radio.

Comments, Ideas? Send e-mail .

edg@comm.mot.com

Date: Fri, 19 Mar 1993 02:00:10 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
zaphod.mps.ohio-state.edu!darwin.sura.net!sgiblab!a2i!davidj@network.UCSD.EDU
Subject: HELP--Where do I get a 950-1450Mhz Radio?
To: info-hams@ucsd.edu

In <1993Mar18.211133.17428@lmpsbbs.comm.mot.com> edg@comm.mot.com (Ed Gonzalez)
writes:

>Headline says it all. I want to know where to get a used radio
>that I can tune to 950-1450Mhz. The Icom 7000 is too expensive.

>I just want to be able to use a small Satellite antenna which I
>have and listen to SCPC (Single Channel Per Carrier) Radio.

>Comments, Ideas? Send e-mail .

>edg@comm.mot.com

Universal Radio has a self contained SCPC radio for about \$400 including
front and and decoder, I think.

--

Josephson Engineering, San Jose California MICROPHONES
Tel/ 408-238-6062 Fax/ 408-238-6022 INSTRUMENTATION
email:david@josephson.com ftp info from: rahul.net /pub/davidj/

Date: Fri, 19 Mar 1993 01:18:40 GMT
From: chronos.synopsys.com!news.synopsys.com!z-mac.synopsys.com!user@uunet.uu.net
Subject: Help on mod to GE Custom Executive
To: info-hams@ucsd.edu

In article <1o8bmdINN88i@lester.appstate.edu>,
HOFFMANMK@CONRAD.APPSTATE.EDU (Marvin Hoffman) wrote:

>

> I have a General Electric Custom Executive which is an all solid state
> radio and is a fairly large underdash radio (i.e. controls for vol,

> squelch, channel select and the microphone are on the radio). Model number
> is RC56FAS66 and it presently is on 154 mhz. Anyone have an experience
> in getting such a radio down to 145 mhz.? Apparently the radio was part
> of the Mastr series, but it is not a Mastr Pro or Royal Custom, and I have
> only ever seen one other radio like it in about 25 years around 2-way radios
> and going to hamfests.
>
> Any help in modifying this down to 145 mhz will be appreciated.
>
> Thanks in advance for your help.
>
> Marv Hoffman, KD4EGV
> Appalachian State University
> Boone, N.C.
>
> Bitnet: HOFFMANMK@APPSTATE.BITNET
> Internet: HOFFMANMK@CONRAD.APPSTATE.EDU

The MASTRII is all solid state and the 154 MHZ stuff goes down to 146 MHZ
with no problem.

Date: Fri, 19 Mar 1993 03:39:44 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
zaphod.mps.ohio-state.edu!uwm.edu!linac!att!att-out!cbfsb!cbnewsb.cb.att.com!
wa2ise@network.UCSD.EDU
Subject: Kenwood mic mods
To: info-hams@ucsd.edu

copied from packet:

Msg#	TSF	Size	#Rd	Date	Time	From	MsgID	To
38132	BF	4720	0	13-Mar	1600	4X4CV	59967_4X1RU	MOD@WW ()
Sb: KENWWOD MIC MODIFICATION.								

The following concerns modificatio of some Kenwood Microphone.
=====

Note: What follows is just suggested, proceed at your own risk.

If you have a Kenwood TM-xxxE (European version) trans', Than your mic,
probably has 1750 Hz baton, Which is useless in some countries (not if
you are a jammer Hi). This baton can Probably be transformed to have
another transceiver function.

I myself, tested the above & succeeded with both: TM-241E & TM-741E (of
which the mic's slightly differ).

GENERALLY (at least in the two above) the 1750 Hz baton provides aprox' 7.5v (when depressed), in order to generate the tone. While the other 3 control baton on the mic provide lower voltage levels (aprox' 1.5v & 3.5v if i remember correctly). The idea is simply to disconnect the 7.5v at the baton input & to connect the other voltage level (1.5v or 3.5, I forgot which).
To do this follow the next modif' stages.

MODIFICATION STAGES:

1) Disconnect the 7.5 voltage level by cutting the only jumper on the print. (to be sure measure 7.5v relative to ground on it, on the 741E mic it is symbolized by J1)

the TM-741E
ZDDDDDDDDDDDDDDDDDDDDDDDD?
3 ZDDDDDD? 3
3 3 ptt 3 3
3 3switch3 3
3 @DDDDDDY 3
3 DD 3
3 J1 3
3 3
3 3
@DDDDDDDDDDDDDDDDDDDDDDDDY

the TM-241E
ZDDDDDDDDDDDDDDDDDDDDDDDD?
3 ZDDDDDD? 3
3 3 ptt 3 3
3 3switch3 3
3 @DDDDDDY 3
3 DD 3
3 J3 3
3 3
3 3
@DDDDDDDDDDDDDDDDDDDDDDDDY

2) Short the 2 connections on:

the TM-741E
ZDDDDDDDDDDDDDDDDDDDDDDDD?
3 ZDDDD? 3
3 3 3 3
3 3
3 3 3 3 3 3 3 3
3 0 0 0 0 3
3 3 3 3 3 3
3 3 3 3 3 3
3 3
3 1750 VFO MR PF 3
3 3
3 3

the TM-241E
ZDDDDDDDDDDDDDDDDDDDDDDDD?
3 ZDD? 3
3 3 3 3
3 3
3 3 3 3 3 3 3 3
3 0 0 0 0 3
3 3 3 3 3 3
3 3 3 3 3 3
3 3
3 1750 VFO MR PF 3
3 3
3 3

3Microphone T91-0398-X53
@DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDY

 \wedge \wedge

3

3

3

3

```
default:call
```

call

— — — —

[illegible]

```
3 :  [[221100      73 DE Ze'ev 4X4CV @4X1RU.ISR.MDLE      001122[[ : 3
```

Note: I haven't tried or verified this, proceed at your own risk. WA2ISE

Date: Thu, 18 Mar 93 21:08:47 GMT

From: usc!cs.utexas.edu!gerald@cc.utexas.edu!slcs@slb.com!leo.asc@slb.com!sjsca4@jones@network.UCSD.EDU

Subject: Motorola HTs

To: info-hams@ucsd.edu

Anthony S. Pelliccio (system@garlic.sbs.com) wrote:

•

```
: 73 de n1mpq/aa  -  ....  .  -  ---  -.-  ---  -..  .  .-..  ..  -.-  .  -  ....
```

•

•

[illegible]

— —

Disclaimer: The opinions expressed above are mine and not those of Schlumberger because they are NOT covered by the patent agreement!

Phone: (602) 345-3638

RF: N7RPQ

Snail: Clark Jones, Schlumberger Technologies, 7855 S. River Pkwy #116, Tempe,
AZ 85284-1825

Date: Thu, 18 Mar 1993 13:31:26 GMT
From: pipex!bnr.co.uk!bmdhh130!bcars267!mwandel@uunet.uu.net
Subject: N.A. 5.000MHz Time Signal - not WWV - what is it?
To: info-hams@ucsd.edu

Yesterday I tuned to the 5.000MHz WWV signal for a propagation check when I heard something odd. There is another time signal on that frequency. It features a male voice announcement, in three pieces, in the 10-second space before the full minute. The second markers are 1KHz tones of maybe 0.1 second duration. The language is not one I understand, definitely not English. Where does this signal come from? This was the first time I've heard it clearly, it was as strong as the WWV signal itself (which was BAD, rotten evening for SW listening). Note the location: Ottawa Ontario, Canada -- very far from South America where I suspect it comes from.

While I'm on this topic... sometimes when the propagation is good it is possible to hear both WWV and WWVH together (usually on 10MHz or 15MHz with my setup). How come the carrier frequencies of the two stations do not interfere with each other? Suppose you are somewhere inbetween the stations where one arrives with a 90 degree phase shift respective to the other and they are about equally strong, would this not totally garble the time signal? No such problem here in the northeast of course; hearing WWVH at all is a sign of excellent reception conditions and it's very weak when you do. Ever neat how they interleave the voice announcements.

Markus Wandel
markus@pinetree.org <-- NOT the source of this posting.

Date: 18 Mar 1993 21:38:50 -0500
From: noc.near.net!genrad.com!genrad.com!not-for-mail@uunet.uu.net
Subject: OMNI VI - 80C32 cpu
To: info-hams@ucsd.edu

When I discovered my OMNI-V was using the 68HC705C8 I called TenTec and asked Rick Long (was support guy - now salesman) who wrote the firmware.

Rick transferred me to the guy - I forget his name - and after being reassured that I would not market any firmware without his permission promptly sent me a 1.44mb 3.5" floppy with the source code on it - for free!.

There's 8k of ROM on the '705C8 and only 6.4k was used so I decided that when I had the motivation and time I would add a few features I wanted. Of course the '705C8 tentec uses is the write once only version but having a supply of the 705's with erasable windows should prove less frustrating.

The Motorola BBS has free compilers/dis-assemblers/cross compilers etc so I would imagine that INTEL also has such freebies.
Some guy hacked the code for the Paragon and sold the upgrade for \$79 or so but considering how many he's likely to have sold I do'nt think he's getting too rich.

73 Trevor G3WQO AB5EU still exiled in Texas.

.

Date: Sun, 14 Mar 1993 02:02:00
From: munnari.oz.au!jabaru.cec.edu.au!csource!gateway@uunet.uu.net
Subject: R-648/ARR-41 info needed
To: info-hams@ucsd.edu

> From: phantom@pro-haven.cts.com
> Organization: ProLine [pro-haven] - Pariahs' Haven BBS, 409/846-3177,
9600-300
>
> Howdy.....
>
> I am starting to accumulate (collect...;-)) military
> radios.....and as I have not had much luck sending e-mail to Fidonet from
> my address, I wonder if you would care to "shoot the bull" about these
> radios as well...

Sure enough

..My address is listed below.....

> Would appreciate any hearing any experiences you've had, ok?
I had mainly collected COLLINS radios and the odd General Dynamics stuff,
I used to have a AN/TRC75 similar to AN/ARC-58 very radio only one problem you
needed
115V @400Hz 3 Phase not an easy thing to find. A radio I always wanted was a
COLLINS 618T
commonly called a AN/ARC-102 or pressurised AN/ARC-105 ifn my memory sures
me???
I even had (don't have it anymore) RT524/VRC-12.

What I suggest, ask me specific questions, and I will see if I can hep, maybe
if you let me
know what is available in your neck of the woods, thats maybe a good place to
start.

Leroy.

X KWQ/2 1.0C X

* Origin: Biz-Nice! S.Oz Business BBS! 4 Lines 08-269 7029/7809 (3:800/851)

Date: 19 Mar 93 03:29:53 GMT

From: dog.ee.lbl.gov!overload.lbl.gov!agate!stanford.edu!nntp.Stanford.EDU!
abercrombie.Stanford.EDU!paulf@network.UCSD.EDU

To: info-hams@ucsd.edu

References <C3uMnK.Jqq@world.std.com>, <Vkgk1B3w164w@pillock.moron.vware.mn.org>,
<1993Mar18.221937.6843@ke4zv.uucp>ord.EDU

Subject : Re: "Real Future of Ham Radio" (Was: FL hams...tower, stop Xmitting)

gary@ke4zv.uucp (Gary Coffman) writes:

>*Ay* exercise of creative
>technology for liesure pursuits is under attack by Big Brother or the
>Safety Nazis. Whatever isn't mandatory is becoming forbidden.

Absolutely Correct. When I read the stuff about EMF biohazards in the popular
press, it scares the heck out of me -- not that I agree with the alarmism.
Rather, given that attitudes of the safety nazis, the world could be regressing
to low tech, with attendant damages (slavery, loss of women's rights). Lost
in all of that is the joy of hanging a signal on the ether.

- =Paul Flaherty, N9FZX | "...but I thought I was voting for 'Bill the Cat'!"
->paulf@Stanford.EDU | -- A Confused Voter

End of Info-Hams Digest V93 #344
